



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-04-16-10 Date: 19-04-18
 Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
 Address : Kodigehalli Sub Division, BBMP, Bangalore.
 Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.
 Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
 Customer's Reference : BBMP/EE/BTP/WO/81/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 16-04-18
 Sample ID No : 2018-04-16-10 /01
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2 3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 17-04-18

Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.29	—
2	Finess by Air permeability method (m ² /kg, Min)	298.6	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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R. Karthik Rechan
 R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

Assistant Executive Engineer
 Kodigehalli Sub Division,
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-04-16-10 **Date:** 15-05-18

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-04-18

Sample ID No : 2018-04-16-10 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 17-04-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	56.5N/mm ²	Not less than 53 N/mm ²

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-04-16-10 **Date:** 19-04-18

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 16-04-18

Sample ID No : 2018-04-16-10 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 16-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	198	198	1.3	98.7	90-100
3	20 mm	6238	6436	42.9	57.1	30-70
4	10 mm	5022	11458	76.4	23.6	10-35
5	4.75 mm	3215	14673	97.8	2.2	0-5
6	Pan	327	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-04-16-10

Date: 19-04-18

Sample ID No : 2018-04-16-10 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	14.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.42	—
5	Bulk Density(Compacted) (Kg/l)	1.47	—
6	Water Absorption(%)	0.21	—

Note:

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AEL(NA)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone B.B.M.P.
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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-04-16-10 **Date:** 18-04-18
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference : BBMP/EE/BTP/WO/81/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-04-18
Sample ID No : 2018-04-16-10 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 16-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	266	266	5.3	94.7	90-100
3	10 mm	2377	2643	52.9	47.1	25-55
4	4.75 mm	2088	4731	94.6	5.4	0-10
5	Pan	269	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-04-16-10
Sample ID No : 2018-04-16-10 /02(b)

Date: 18-04-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.47	—
5	Bulk Density(Compacted) (Kg/l)	1.54	—
6	Water Absorption(%)	0.27	—
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-04-16-10 Date: 18-04-18

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-04-18

Sample ID No : 2018-04-16-10 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 16-04-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	55	55	5.5	94.5	90-100	90-100	90-100	95-100
3	2.36 mm	148	203	20.3	79.7	60-95	75-100	85-100	95-100
4	1.18 mm	183	386	38.6	61.4	30-70	55-90	75-100	90-100
5	600 micron	223	609	60.9	39.1	15-34	35-59	60-79	80-100
6	300 micron	242	851	85.1	14.9	5-20	8-30	12-40	15-50
7	150 micron	102	953	95.3	4.7	0-10	0-10	0-10	0-15
8	Pan	47	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-04-16-10

Date: 18-04-18

Sample ID No : 2018-04-16-10 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.38	—
2	Specific Gravity	2.54	—
3	Material finer than 75 micron(%)	4.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Asst. Ex. Eng.
At (w)

Asst. Ex. Eng.
Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore

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Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2018-04-16-10 Date: 18-04-18
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/81/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-04-18
Sample ID No : 2018-04-16-10 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 17-04-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.395	529	648	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.617	549	652	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	559	672	21.0%	Satisfactory	Satisfactory

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-04-16-10 Date: 21-04-18

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-04-18

Sample ID No : 2018-04-16-10 /05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 17/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.49	1.387	4477	89.7	20.0	18.6	23.3
2	Cover Slab-2	75.49	100.53	1.366	4475	84.6	18.9	17.6	22.0
3	Cover Slab-3	75.44	100.48	1.359	4469	87.3	19.5	18.2	22.7

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-30-05 Date: 04/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-05 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	27/04/2018	04/05/2018	149.66 X 150.42 X 150.78	22512	8.175	394.0	17.5	17.9
2	Drain Concrete	M20	27/04/2018	04/05/2018	150.69 X 149.63 X 151.24	22548	8.163	403.6	17.9	
3	Drain Concrete	M20	27/04/2018	04/05/2018	150.47 X 150.98 X 150.44	22718	8.155	413.5	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-30-05 Date: 25/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-05 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	27/04/2018	25/05/2018	151.36 X 150.44 X 149.68	22771	8.069	526.0	23.1	23.2
2	Drain Concrete	M20	27/04/2018	25/05/2018	151.58 X 150.00 X 149.87	22737	8.174	518.4	22.8	
3	Drain Concrete	M20	27/04/2018	25/05/2018	150.46 X 150.77 X 150.69	22685	8.201	537.6	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-30-05 **Date:** 04/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-05 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	27/04/2018	04/05/2018	149.66 X 150.42 X 150.78	22512	8.175	394.0	17.5	17.9
2	Drain Concrete	M20	27/04/2018	04/05/2018	150.69 X 149.63 X 151.24	22548	8.163	403.6	17.9	
3	Drain Concrete	M20	27/04/2018	04/05/2018	150.47 X 150.98 X 150.44	22718	8.155	413.5	18.2	

Note:

The results pertain to the samples received and tested.
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[Signature]
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.



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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-30-05 **Date:** 25/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-05 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	27/04/2018	25/05/2018	151.36 X 150.44 X 149.68	22771	8.069	526.0	23.1	23.2
2	Drain Concrete	M20	27/04/2018	25/05/2018	151.58 X 150.00 X 149.87	22737	8.174	518.4	22.8	
3	Drain Concrete	M20	27/04/2018	25/05/2018	150.46 X 150.77 X 150.69	22685	8.201	537.6	23.7	

Note:

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Assistant Executive Engineer,
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-30-05 **Date:** 05/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-05 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	28/04/2018	05/05/2018	150.37 X 150.79 X 151.27	22674	8.201	394.5	17.4	18.3
2	Drain Concrete	M20	28/04/2018	05/05/2018	149.67 X 150.26 X 151.42	22489	8.163	418.3	18.6	
3	Drain Concrete	M20	28/04/2018	05/05/2018	150.56 X 149.63 X 150.47	22528	8.166	425.8	18.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-30-05 **Date:** 26/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-05 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	28/04/2018	26/05/2018	151.77 X 150.79 X 151.63	22885	8.166	542.4	23.7	23.3
2	Drain Concrete	M20	28/04/2018	26/05/2018	150.46 X 151.22 X 149.75	22753	8.175	532.4	23.4	
3	Drain Concrete	M20	28/04/2018	26/05/2018	152.27 X 149.63 X 151.38	2285	8.102	52.3	22.9	

Note:

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-05-04-05 **Date:** 07/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-18

Sample ID No : 2018-05-04-05 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	30/04/2018	07/05/2018	151.05 X 151.00 X 149.68	22809	8.176	412.8	18.1	18.1
2	Drain Concrete	M20	30/04/2018	07/05/2018	150.47 X 149.63 X 151.44	22515	8.132	403.0	17.9	
3	Drain Concrete	M20	30/04/2018	07/05/2018	149.86 X 151.23 X 149.53	22663	8.156	417.0	18.4	

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[Signature]
 Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-05-04-05 **Date:** 28/05/2018
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/81/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 04-05-18
Sample ID No : 2018-05-04-05 /02
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 28/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	30/04/2018	28/05/2018	151.03 X 149.78 X 151.56	22621	8.175	540.6	23.9	23.4
2	Drain Concrete	M20	30/04/2018	28/05/2018	150.23 X 150.47 X 150.36	22605	8.163	508.6	22.5	
3	Drain Concrete	M20	30/04/2018	28/05/2018	151.27 X 149.63 X 150.44	22635	8.152	536.4	23.7	

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(Signature)
Assistant Executive Engineer,
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Bangalore.
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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-05-04-05 Date: 09/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-18

Sample ID No : 2018-05-04-05 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	02/05/2018	09/05/2018	151.03 X 151.44 X 150.78	22872	8.163	423.1	18.5	18.3
2	Drain Concrete	M20	02/05/2018	09/05/2018	150.19 X 149.67 X 151.27	22479	8.172	413.6	18.4	
3	Drain Concrete	M20	02/05/2018	09/05/2018	151.02 X 149.82 X 151.75	22626	8.205	405.0	17.9	

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Deep
 Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-05-04-05 **Date:** 30/05/2018
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/81/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 04-05-18
Sample ID No : 2018-05-04-05 /04
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 30/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	02/05/2018	30/05/2018	151.36 X 150.47 X 150.98	22775	8.175	517.0	22.7	22.4
2	Drain Concrete	M20	02/05/2018	30/05/2018	150.36 X 150.44 X 150.26	22620	8.169	495.4	21.9	
3	Drain Concrete	M20	02/05/2018	30/05/2018	149.68 X 150.44 X 150.86	22518	8.146	508.9	22.6	

Note:

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Kodigehalli Sub Division,
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-05-16-03 Date: 17/05/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/81/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-18

Sample ID No : 2018-05-16-03 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M15	10/05/2018	17/05/2018	149.66 X 150.58 X 148.98	22536	8.177	286.2	12.7	12.3
2	PCC	M15	10/05/2018	17/05/2018	151.02 X 150.69 X 149.66	22757	8.165	282.2	12.4	
3	PCC	M15	10/05/2018	17/05/2018	150.27 X 150.55 X 149.67	22623	8.147	269.2	11.9	

Note:

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[Signature]
Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-05-16-03 Date: 07/06/2018
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura.
Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference : BBMP/EE/BTP/WO/81/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-05-18
Sample ID No : 2018-05-16-03 /02
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M15	10/05/2018	07/06/2018	150.03 X 151.44 X 151.27	22721	8.179	411.2	18.1	18.1
2	PCC	M15	10/05/2018	07/06/2018	150.66 X 149.86 X 150.47	22578	8.156	404.1	17.9	
3	PCC	M15	10/05/2018	07/06/2018	150.28 X 151.44 X 149.76	22758	8.058	418.8	18.4	

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